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 L1 STRUCTURE UPLOADED
 L2 2 S L1 FUL

FILE 'REGISTRY' ENTERED AT 11:45:05 ON 21 FEB 2002
 SET TERMSET E#
 DEL SEL Y
 SEL L2 1 RN
 L3 1 S E1/RN
 SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 11:45:16 ON 21 FEB 2002
 L4 2 S L3

FILE 'REGISTRY' ENTERED AT 11:46:47 ON 21 FEB 2002
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L5 1 S E1/RN
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L6 12 S L5

L7 STRUCTURE UPLOADED
 S L7

FILE 'REGISTRY' ENTERED AT 11:48:52 ON 21 FEB 2002

L8 139 S L7 FUL

FILE 'CAPLUS' ENTERED AT 11:48:54 ON 21 FEB 2002

L9 252 S L8 FUL

L10 STRUCTURE UPLOADED

L11 STRUCTURE UPLOADED
 S L11

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L12 20 S L11 FUL

FILE 'CAPLUS' ENTERED AT 11:53:36 ON 21 FEB 2002

L13 21 S L12 FUL

FILE 'REGISTRY' ENTERED AT 11:53:43 ON 21 FEB 2002

L14 20 S L11 FUL

L15 15 S L14 AND CAPLUS/LC

L16 0 S L15 NOT L14

L17 5 S L14 NOT L15

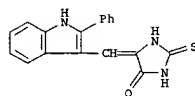
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L18 21 L15

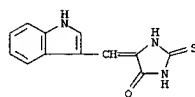
=> d 1-21 ibib abs hitstr

L18 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:530195 CAPLUS
 DOCUMENT NUMBER: 133:217389
 TITLE: Anti-cancer activity studies of indolalithiohydantoin
 AUTHOR(S): Suzen, Sibel; Buyukbingol, Erdem
 CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Faculty of Pharmacy (ECZACILIK), Ankara University, Ankara, 06100, Turk.
 SOURCE: Farmaco (2000), 55(4), 246-248
 CODEN: FMCE8; ISSN: 0014-827X
 PUBLISHER: Elsevier Science S.A.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 5-(2-Phenyl-3'-indolal)-2-thiohydantoin (PIT) has been evaluated as an anti-cancer compd. on several cancer lines organized in to subpanels representing leukemia, melanoma, and cancer of lung, colon, kidney, ovary, breast, prostate and central nervous system by the National Cancer Institute (NCI) anti-cancer drug screen program. The compd. showed inhibitory activity on several cancer cell lines. No information is available on anti-cancer potency of this compd. with normal cell lines.
 IT 161943-90-4
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (anti-cancer activity studies of indolalithiohydantoin on various cancer cell lines)
 RN 161943-90-4 CAPLUS
 CN 4-Imidazolidinone, 5-[(2-phenyl-1H-indol-3-yl)methylene]-2-thioxo- (9CI)
 (CA INDEX NAME)

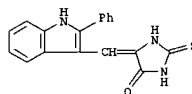


REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1997:806382 CAPLUS
 DOCUMENT NUMBER: 128:75608
 TITLE: A convenient synthesis of glycosylated hydantoin as potential antiviral agents
 AUTHOR(S): Khodair, Ahmed I.
 CORPORATE SOURCE: Faculty of Education, Chemistry Dep., Tanta University (Kafr El-Sheikh Branch), Egypt
 SOURCE: Phosphorus, Sulfur Silicon Relat. Elem. (1997), 122, 9-26
 CODEN: PSSLEC; ISSN: 1042-6507
 PUBLISHER: Gordon & Breach Science Publishers
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Reaction of 5-arylidene-2-thiohydantoin with glycosyl halides under alk. conditions gave the resp. bisglycosylated derivs. Deacetylation with ammonia in methanol caused a change of the S-glycosyl residue and gave the N-3 glycosylated analogs. S-Glycosylation also occurred when N-3 substituted hydantoin were reacted.
 IT 10258-18-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREF (Preparation)
 (a convenient prepn. of glycosylated hydantoin as potential antiviral agents)
 RN 10258-18-1 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethylene)-2-thioxo- (9CI) (CA INDEX NAME)



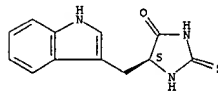
L18 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1998:757908 CAPLUS
 DOCUMENT NUMBER: 130:119124
 TITLE: Evaluation of anti-HIV activity of 5-(2-phenyl-3'-indolal)-2-thiohydantoin
 AUTHOR(S): Suzen, Sibel; Buyukbingol, Erdem
 CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Faculty of Pharmacy (ECZACILIK), Ankara University, Ankara, 06100, Turk.
 SOURCE: Farmaco (1998), 53(7), 525-527
 CODEN: FMCE8; ISSN: 0014-827X
 PUBLISHER: Elsevier Science S.A.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The anti-HIV activity of the previously synthesized 5-(2-phenyl-3'-indolal)-2-thiohydantoin was evaluated. The compd., contg. two structural moieties found in highly active anti-HIV agents, exhibited poor activity and rather high cytotoxicity.
 IT 161943-90-4
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (phenylindolal-thiohydantoin anti-HIV activity)
 RN 161943-90-4 CAPLUS
 CN 4-Imidazolidinone, 5-[(2-phenyl-1H-indol-3-yl)methylene]-2-thioxo- (9CI)
 (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:471998 CAPLUS
 DOCUMENT NUMBER: 125:248420
 TITLE: Studies in thiohydantoin chemistry. II. C-Terminal sequencing of peptides
 AUTHOR(S): Kirkpatrick, Alan; Laslett, Robert L.; Wilshire, John F. K.
 CORPORATE SOURCE: Division of Biomolecular Engineering, CSIRO, Parkville, 3052, Australia
 SOURCE: Aust. J. Chem. (1996), 49(5), 551-560
 CODEN: AJCHAS; ISSN: 0004-9425
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB An investigation has been carried out into the thiocyanate degradn. (AcOH/Ac2O/HSCN) procedure as it relates to the C-terminal sequencing of peptides, particular emphasis being placed on the sequencing of amino acid residues contg. sensitive or functional side chains. Attempted C-terminal sequencing of several serine- and threonine-contg. peptides stopped at these particular residues, and did not proceed further. It is concluded that sequencing of most of the common amino acids is achievable but that significant problems will have to be overcome before routine sequencing of proline, serine, threonine, arginine, and, in particular, aspartic and glutamic acids can be claimed. The action of base on the thiohydantoin derivs. of N,S-diacetylcysteine and N,S-diacetyl-.beta.-methylcysteine causes .beta.-elimination of thioacetic S-acid to give the corresponding olefinic thiohydantoin.
 IT 61159-99-7P
 RL: SPN (Synthetic preparation); PREF (Preparation)
 (Schlack-Kumpf reaction in C-terminal sequencing of peptides)
 RN 61159-99-7 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:207009 CAPLUS

DOCUMENT NUMBER: 122:204538

TITLE: Studies on the synthesis and structure-activity relationships of 5-(3'-indolal)-2-thiohydantoin derivatives as aldose reductase enzyme inhibitors
AUTHOR(S): Buyukbingol, Erdem; Suzen, Sibel; Klopman, Gilles
CORPORATE SOURCE: Faculty of Pharmacy, Dep. Pharmaceutical Chem., Ankara

SOURCE: Univ., Ankara, 06100, Turk.

Farmaco (1994), 49(6), 443-7

CODEN: FMCE88

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A new series of 5-(3'-indolal)-2-thiohydantoin derivs. was synthesized and

tested for the ability to inhibit bovine lens aldose reductase (AR) enzyme. The compds. were prepd. by condensation of substituted indole-3-aldehyde derivs. with 2-thiohydantoin. The ability to inhibit the semi-purified bovine lens enzyme in vitro was obsd. for several of the compds. tested. The best inhibitor was 5-[3'-(5-fluoroindolal)]-2-(N-acetyl)thiohydantoin; its activity compared favorably with the ref. compd.

sorbinil.

IT 10258-18-1P 161943-76-6P 161943-77-7P

161943-78-8P 161943-79-9P 161943-80-2P

161943-81-3P 161943-82-4P 161943-90-4P

RL: BAC (Biological activity or effector, except adverse); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL

(Biological study); PREP (Preparation); USES (Uses) (synthesis and structure-activity relationships of

indolalthiohydantoin

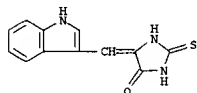
derivs. as aldose reductase inhibitors)

RN 10258-18-1 CAPLUS

CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethylene)-2-thioxo- (9CI) (CA

INDEX

NAME)



RN 161943-76-6 CAPLUS

CN 4-Imidazolidinone, 5-[(5-fluoro-1H-indol-3-yl)methylene]-2-thioxo-

(9CI)

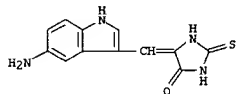
(CA INDEX NAME)

L18 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)

CN 4-Imidazolidinone, 5-[(5-amino-1H-indol-3-yl)methylene]-2-thioxo-

(9CI)

(CA INDEX NAME)

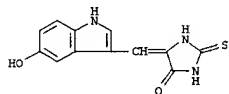


RN 161943-81-3 CAPLUS

CN 4-Imidazolidinone, 5-[(5-hydroxy-1H-indol-3-yl)methylene]-2-thioxo-

(9CI)

(CA INDEX NAME)

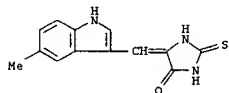


RN 161943-82-4 CAPLUS

CN 4-Imidazolidinone, 5-[(5-methyl-1H-indol-3-yl)methylene]-2-thioxo-

(9CI)

(CA INDEX NAME)



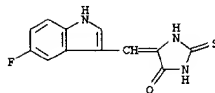
RN 161943-90-4 CAPLUS

CN 4-Imidazolidinone, 5-[(2-phenyl-1H-indol-3-yl)methylene]-2-thioxo-

(9CI)

(CA INDEX NAME)

L18 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)

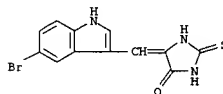


RN 161943-77-7 CAPLUS

CN 4-Imidazolidinone, 5-[(5-bromo-1H-indol-3-yl)methylene]-2-thioxo-

(9CI)

(CA INDEX NAME)



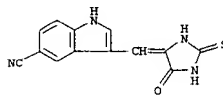
RN 161943-78-8 CAPLUS

CN 1H-indole-5-carbonitrile,

3-[(5-oxo-2-thioxo-4-imidazolidinylidene)methyl]-

(9CI)

(CA INDEX NAME)

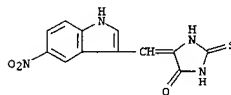


RN 161943-79-9 CAPLUS

CN 4-Imidazolidinone, 5-[(5-nitro-1H-indol-3-yl)methylene]-2-thioxo-

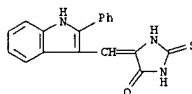
(9CI)

(CA INDEX NAME)

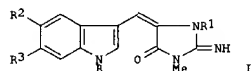


RN 161943-80-2 CAPLUS

L18 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)



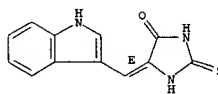
L18 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1994:700646 CAPLUS
 DOCUMENT NUMBER: 121:300646
 TITLE: A new synthesis of 5-bromoaplysinopsin,
 6-bromoaplysinopsin and 3'-demethylaplysinopsin
 and
 their biological activities
 AUTHOR(S): Gulati, Deepa; Chauhan, P.M.S.; Pratap, Ram;
 Bhakuni,
 D.S.
 CORPORATE SOURCE: Med. Chem. Div., Cent. Drug. res. Inst.,
 Lucknow, 226
 SOURCE: 001, India
 Indian J. Chem., Sect. B (1994), 33B(1), 10-16
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



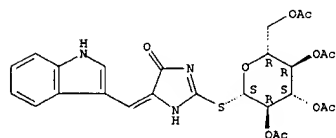
AB A new synthesis of 5-bromoaplysinopsin (I, R = R3 = H, R1 = Me, R2 = Br), 6-bromoaplysinopsin (I, R = R2 = H, R1 = Me, R3 = Br), and 3'-demethylaplysinopsin (I, R-R2 = H, R3 = Br) has been developed.
 A no. of their analogs have been synthesized and evaluated for biol. activities
 Some of the compds. show fungicidal activity. I (R = R1 = R3 = H, R2 = Br) also exhibits moderate antiviral activity. I (R = H, tosyl, R1 = R3 = H, R2 = Br) and 1-tosyl-5-bromo-3-indolecarboxaldehyde show significant in vitro activity against Leishmania donovani at a dose of 100 .mu.g/mL.
 IT 158991-96-98
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 158991-96-9 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethylene)-2-thioxo-, (E)- (9CI)
 (CA INDEX NAME)

Double bond geometry as shown.

L18 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)

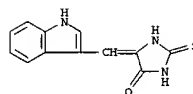


L18 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1994:45250 CAPLUS
 DOCUMENT NUMBER: 120:45250
 TITLE: S-Glucosylated hydantoins as new antiviral agents
 AUTHOR(S): El-Barbary, Ahmed A.; Khodair, Ahmed I.;
 Pedersen,
 Erik B.; Nielsen, Claus
 CORPORATE SOURCE: Dep. Chem., Odense Univ., Odense, DK-5230, Den.
 SOURCE: J. Med. Chem. (1994), 37(1), 73-7
 CODEN: JMCHAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB S-Glucosylation took place on reaction of 5-alkylidene- and 5-arylidene-3-aryl-2-thiohydantoins with glycosyl halides under alk. conditions. Bisglucosylation also took place with N-3 unsubstituted hydantoins were reacted. The bisglucosylated hydantoins produced N-3 glucosylated hydantoins on treatment with ammonia in methanol. In antiviral studies the most active compds. against HSV-1 and HSV-2 were
 5-(2-thienylmethylene)-3-phenyl-2-(2,3,4,6-tetra-O-acetyl-.beta.-D-glucopyranosyl)-2-thiohydantoin and 5-(2-thienylmethylene)-3-(4-chlorophenyl)-2-(2,3,4,6-tetra-O-acetyl-.beta.-D-glucopyranosyl)-2-thiohydantoin.
 IT 151731-28-18
 RL: RAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and antiviral activity of, against herpes simplex virus types 1 and 2)
 RN 151731-28-1 CAPLUS
 CN 4H-Imidazol-4-one,
 1,5-dihydro-5-(1H-indol-3-ylmethylene)-2-[(2,3,4,6-tetra-O-acetyl-.beta.-D-glucopyranosyl)thio]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.
 Double bond geometry unknown.



IT 10258-18-1
 RL: RCT (Reactant) (reaction of, with tetraacetyl glucopyranoside bromide)
 RN 10258-18-1 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethylene)-2-thioxo- (9CI) (CA INDEX NAME)

L18 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)

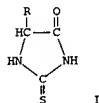


L18 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:240449 CAPLUS
DOCUMENT NUMBER: 118:240449
TITLE: Skin and hair cosmetics containing thiohydantoin
 .alpha.-amino acid derivatives
INVENTOR(S): Yanashita, Saburo; Tsubokawa, Koichiro; Kanetaka,
 Setsuko; Myata, Katsuyasu
PATENT ASSIGNEE(S): Nikka Chemical Ind Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKOXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05004910	A2	19930114	JP 1991-212770	19910730
PRIORITY APPLN. INFO.:		JP 1990-203681 19900731		
OTHER SOURCE(S):		MARPAT 118:240449		

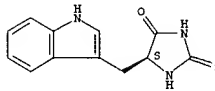
GI



AB UV-absorbing and stable cosmetics contain thiohydantoin I (R = L-, D-, or DL-.alpha.-amino acid residue). L-Threonine was stirred with Ac2O and AcOH at 80.degree., the mixt. treated with ammonium thiocyanate at 45-50.degree. for 2 h, evapd., and treated with 6N HCl at 45-50.degree. for 3 h to give L-threonine thiohydantoin deriv. A cosmetic cream contg. 0.5 wt.% the thiohydantoin deriv. was formulated.
IT 61159-99-7P
RL: PREP (Preparation)
 (prepn. of, sunscreen cosmetics contg.)
RN 61159-99-7 CAPLUS
CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA INDEX NAME)

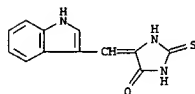
Absolute stereochemistry.

L18 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)



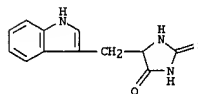
L18 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:34351 CAPLUS
DOCUMENT NUMBER: 118:34351
TITLE: Preparation and fungicidal activity of
 5-substituted hydantoin and their 2-thio analogs
AUTHOR(S): Marton, Janos; Enisz, Janos; Hosztafi, Sandor;
 Timar, Tibor
CORPORATE SOURCE: Alkaloids Chem. Co., Ltd., Tiszavasvari, 4440,
 Hung.
SOURCE: J. Agric. Food Chem. (1993), 41(1), 148-52
 CODEN: JAFCAU; ISSN: 0021-8561
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 5-(Arylmethylene)hydantoin and 5-(arylmethylene)-2-thiohydantoin
were synthesized by condensation of arom. aldehydes with hydantoin or 2-thiohydantoin in the presence of ethanolamine. A no. of 5-alkyl and 5-(arylmethyl)hydantoin and their 2-thio analogs were synthesized from amino acids. All of these compds. were tested for pesticidal activity; only the fungicidal activity was significant. The arylidene C=C double bond appears to have a basic role in fungicidal activity.
Introduction of OCH3 and OH groups at positions 3 and 4 of the arom. ring is advantageous.
IT 10258-18-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. and fungicidal activity of)
RN 10258-18-1 CAPLUS
CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethylene)-2-thioxo- (9CI) (CA INDEX NAME)

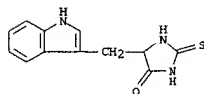


L18 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2002 ACS

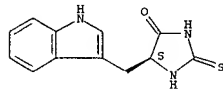
ACCESSION NUMBER: 1992:629357 CAPLUS
DOCUMENT NUMBER: 117:229357
TITLE: Solid-phase C-terminal sequencing of peptides
AUTHOR(S): Goto, M.; Kohara, N.; Yamashita, S.
CORPORATE SOURCE: Dep. Clin. Chem., Hoshi Coll. Pharm., Tokyo, Japan
SOURCE: Amino Acids (1992), 2(3), 289-96
 CODEN: AACIE6
DOCUMENT TYPE: Journal
LANGUAGE: English
AB C-terminal amino acid sequence anal. seemed to be an established procedure, as the counterpart of Edman's N-terminal sequencing method. However, poor recovery of the C-terminal amino acids in the reaction in homogeneous soln. suggested further improvement of the method. In the present study, N-terminal amino acid was fixed covalently to controlled pore glass (CPG) beads and the C-terminal amino acid was activated (by treating with acetic anhydride) and coupled with thiocyanate to form a thiohydantoin (TH) ring at the C-terminus. Then, the C-terminal amino acid was split off as the corresponding TH deriv., and analyzed by HPLC.
Hydrolysis of the TH deriv. was achieved at 60.degree. in the presence of 2M HCl for 2 h. Solid-phase fixed peptide was washed simply with acetone and dried for the next cycle of the reaction. So far obtained results in the heterogeneous mixt. are not satisfactory in terms of the recovery of the C-terminal TH, and improvement of the recovery and further steps are under progress.
IT 64419-92-7
RL: ANST (Analytical study)
 (sepn., by HPLC, in peptide C-terminal sequencing)
RN 64419-92-7 CAPLUS
CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo- (9CI) (CA INDEX NAME)



L18 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:429875 CAPLUS
 DOCUMENT NUMBER: 115:29875
 TITLE: Microwave irradiation to hydrolyze modified peptide
 bonds
 AUTHOR(S): Yanashita, Saburo; Miyashita, Masahiro; Tsubokawa, Koichiro
 CORPORATE SOURCE: Dep. Clin. Chem., Hoshi Coll. Pharm., Tokyo, 142, Japan
 SOURCE: Rinsho Kagaku (Nippon Rinsho Kagakkai) (1990), 19(3), 315-21
 CODEN: RIXAAN; ISSN: 0370-5633
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB For mild and rapid anal. of the C-terminal amino acids of peptides, C-terminal peptide bond was converted to a thiohydantoin ring using (CF3CO)2O and thiocyanate and then hydrolyzed by irradiating microwave (2450 MHz) in the presence of 2N HCl for 3 min. The thiohydantoin derivs. of amino acids were sepd. and identified by HPLC. Microwave irradiation was found to be a highly specific method for the hydrolysis of the modified peptide bond.
 IT 64419-92-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 64419-92-7 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo- (9CI) (CA INDEX NAME)



L18 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)
 decapeptide (Tyr-Leu-Ala-Ile-Tyr-Val-Met-Ala-Phe-Val) sequenced through to the penultimate residue.
 IT 61159-99-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, for protein sequence detn.)
 RN 61159-99-7 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



L18 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:3043 CAPLUS
 DOCUMENT NUMBER: 114:3043
 TITLE: Method for preparation of thiohydantoins for carboxyl-terminal protein sequence analysis
 INVENTOR(S): Inglis, Adam Sinclair; Casagrande, Francis; Wilshire, John Francis Kelly
 PATENT ASSIGNEE(S): Commonwealth Scientific and Industrial Research Organization, Australia
 SOURCE: PCT Int. Appl., 23 pp. CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

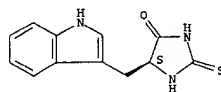
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9004183	A1	19900419	WO 1989-AU433	19891006
WI: AU, JP, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8944022	A1	19900501	AU 1989-44022	19891006
PRIORITY APPLN. INFO.:			AU 1988-840	19881007
			AU 1988-939	19881012
			WO 1989-AU433	19891006

AB A method for the carboxyl-terminal degradn. of a protein or peptide comprises: (1) coupling the carboxyl group of the carboxyl-terminal amino acid residue of the protein or peptide with thiocyanic acid or a thiocyanate to form a substituted thiohydantoin deriv., and (2) cleaving the substituted thiohydantoin deriv. with a strong inorg. base (e.g. an alkali metal hydroxide of a concn. of >0.2 M, esp. 0.5 M KOH) in the presence of a water-miscible org. solvent (e.g. MeOH) and an antioxidant (e.g. dithioerythritol or dithiothreitol) to form a shortened protein or peptide and the carboxyl-terminal amino acid thiohydantoin which can be identified for sequencing purposes. Prior to the coupling reaction, the carboxyl group is activated with e.g. Ac2O and AcOH. Shortened protein or peptide formed by the cleavage reaction is subjected to .gtoreq.1 further degradn. cycles, with each such cycle being followed by identification of the C-terminal amino acid thiohydantoin formed by the cleavage reaction. A peptide bound on glass beads was degraded by the method. The cleavage soln. was analyzed by HPLC. It was possible to sequence through an aspartyl residue, the three successive C-terminal residues (valyl, aspartyl, alanyl) of the peptide being detd. unequivocally. In addn., leucine-enkephalin has been completely sequenced and the synthetic

L18 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:34435 CAPLUS
 DOCUMENT NUMBER: 108:34435
 TITLE: Microsequence analysis of peptides and proteins: trimethylsilylthiocyanate as a reagent for carboxy-terminal sequence analysis
 AUTHOR(S): Hawke, David H.; Lahm, Hans Werner; Shively, John E.; Todd, Charles W.
 CORPORATE SOURCE: Div. Immunol., Beckman Res. Inst. City of Hope, Duarte, CA, 91010, USA
 SOURCE: Anal. Biochem. (1987), 166(2), 298-307
 CODEN: ANBCA2; ISSN: 0003-2697
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A reinvestigation of the isothiocyanate-based chem. for cyclic degradns. of peptides and proteins revealed that the reagent trimethylsilylthiocyanate (TMS-ITC) gives superior results in terms of coupling efficiency and lack of complicating side reactions. Acetic anhydride (10 min at various temps.) was used to activate the carboxyl terminus, and 6N HCl (30 min at room temp.) was used for cleavage as originally described by G. R. Stark (1968). Reaction conditions for efficient coupling were explored using subtractive chem. on bradykinin, a nonapeptide, and sepn. of the reaction products by reversed-phase HPLC. The products were analyzed by fast-atom-bombardment mass spectrometry and shown to be the N-acetylated starting material and the N-acetylated des-Arg9 deriv. of bradykinin. The pseudo-first-order rate consts. measured at 50, 70, and 90.degree. were 5.6 .times. 10-5, 5.1 .times. 10-4, and 8.6 .times. 10-4 s-1, resp. To obtain complete couplings within 30-40 min at 50.degree., the effect of pyridine catalysis was studied. The addn. of 0.225M pyridine resulted in roughly doubling the rates at 50 and 70.degree.. In the case of bradykinin, the reaction with TMS-ITC in the presence of the pyridine catalyst at 50.degree. was complete in 15 min. To apply this methodol. to the anal. of proteins, the thiohydantoin derivs. of amino acids were synthesized and sepd. by reversed-phase HPLC. The derivs. were also characterized by mass spectrometry. The above reaction conditions were tested on 3 nmol of sperm whale apomyoglobin for 3 cycles of degradn. The sample was first coupled to p-phenylene diisothiocyanate-derivatized aminopropyl glass with a 90% yield. The approx. initial yield of glycine at cycle one was 30%. The first 3 cycles corresponded exactly to the predicted carboxy-terminal sequence of myoglobin. These results demonstrate the feasibility of a new Stark reagent for automated carboxy-terminal chem.
 IT 61159-99-7
 RL: FORM (Formation, nonpreparative) (formation of, in sequence anal. of peptides and proteins)

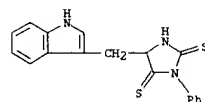
L18 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 61159-99-7 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

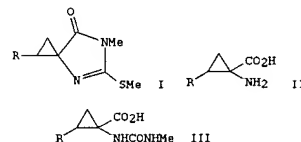


L18 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1987:511978 CAPLUS
 DOCUMENT NUMBER: 107:111978
 TITLE: Resolution of enantiomeric mixtures of phenylthiohydantoin amino acids on (+)-tartaric acid-impregnated silica gel plates
 AUTHOR(S): Bhushan, R.; Ali, Imran
 CORPORATE SOURCE: Dep. Chem., Univ. Roorkee, Roorkee, 247667, India
 SOURCE: J. Chromatogr. (1987), 392, 460-3
 CODEN: JOCRAH; ISSN: 0021-9673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The resolu. of enantiomeric mixts. of phenylthiohydantoin (PTH) amino acids by TLC using (+)-tartaric acid-impregnated silica gel plates is reported. Thin-layer plates (20 cm. times. 20 cm. times. 0.5 mm) were prepd. by spreading a slurry of silica gel (50 g) in water (100 mL) contg. optically pure (+)-tartaric acid (0.3 g), using a Stahl type application. The plates were then heated at 60.degree. for 6-8 h. The PTH amino acids of 9 DL- and 18 pure L-amino acids were prepd. The enantiomeric mixts. 10-4M dissolved in EtOAc were applied at the 500-ng level using a 100-.mu.L Hamilton syringe. The plates were kept in an oven for 10 min at 60.degree. and brought to room temp. before developing in CHCl3-EtOAc-H2O (28:1:1) for 35 min in pre-equilibrated (15 min) glass chambers. The plates were dried at room temp. and then kept in an iodine chamber when the D- and L-forms of each PTH amino acid were visible as yellow-brown spots. The RF values of D and L components were recorded.
 n-BuOAc-CHCl3 (1:5) in the presence of (+)-tartaric acid and (+)-ascorbic acid resolved 6 racemic mixts., i.e., PTH derivs. of Met, Phe, Val, Th, Ala, Ser, out of the 9 used. TLC of enantiomeric mixts. of PTH amino acids on (+)-tartaric acid-impregnated plates provides a very rapid, cheap, simple, and sensitive method which involves no prior treatment or any sophisticated instrumentation. The method can be applied to racemic mixts. and both the (+)- and (-)-forms can be eluted and used subsequently.
 IT 110071-66-4
 RL: PROC (Process)
 (resolu. of, by TLC on tartaric acid-impregnated silica gel plates)
 RN 110071-66-4 CAPLUS
 CN 2,4-imidazolidinedithione, 5-(1H-indol-3-ylmethyl)-3-phenyl- (9CI)
 (CA INDEX NAME)

L18 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)

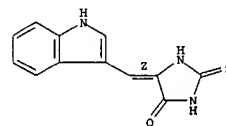


L18 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1985:131556 CAPLUS
 DOCUMENT NUMBER: 102:131556
 TITLE: E- and Z-1-amino-2-aryl(alkyl)cyclopropanecarboxylic acids from spiroimidazolones
 AUTHOR(S): Arenal, I.; Bernabe, M.; Fernandez Alvarez, E.; Izquierdo, Maria L.
 CORPORATE SOURCE: Inst. Quim. Org. Gen., CSIC, Madrid, Spain
 SOURCE: An. Quim., Ser. C (1984), 80(2), 127-33
 CODEN: AQSD6; ISSN: 0211-1357
 DOCUMENT TYPE: Journal
 LANGUAGE: Spanish
 GI

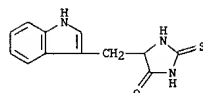


AB Spiro compds. I (R = Ph, anisyl, CHMe2) were converted to acids II via ureido derivs. III. I (R = Ph) was heated with NaOH and HgCl2 to yield II (R = Ph), the latter was N-nitrosated, and the product was treated with KOH to give II (R = Ph).
 IT 95474-46-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and S-methylation of)
 RN 95474-46-7 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethylene)-2-thioxo-, (Z)- (9CI)
 (CA INDEX NAME)

Double bond geometry as shown.

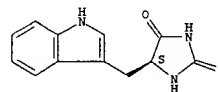


ACCESSION NUMBER: 1982:545268 CAPLUS
 DOCUMENT NUMBER: 97:145268
 TITLE: Stepwise sequence determination from the carboxyl terminus of peptides
 AUTHOR(S): Meuth, Joseph L.; Harris, David E.; Dwulet, Francis
 CORPORATE SOURCE: E.; Crowl-Powers, Mary L.; Gurd, Frank R. N. Dep. Chem., Indiana Univ., Bloomington, IN, 47405, USA
 SOURCE: Biochemistry (1982), 21(16), 3750-7
 CODEN: BICHAW; ISSN: 0006-2960
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The title degrdn. involves the reaction of the C-terminal residue with thiocyanate in acetic acid and acetic anhydride followed by cleavage of the C-terminal residue as its 2-thiohydantoin by acetohydroxamate in aq. soln. The two steps of the degrdn. were studied by using model peptides, and conditions were developed for the rapid efficient removal and identification of the C-terminal residue of short peptides. The method was applied to peptides covalently attached to insol. supports. A highly substituted porous glass activated with N,N'-carbonyldiimidazole was prep'd. as the insol. support. Peptides were coupled to the porous glass, and several rounds of the degrdn. were performed on immobilized peptides. High-pressure liq. chromatog. provides a rapid, sensitive identification method for the 2-thiohydantoin. Gas-liq. chromatog. of the amino acid 2-thiohydantoin and reconversion to the parent amino acid were used to identify the cleaved residues. The method was applied to Gly-Leu-Tyr, Met-enkephalin, and Val-Leu-Ser-Glu-Gly and was used to det. the C-terminal sequence of 4 residues of a 22-residue cyanogen bromide fragment of pygmy sperm whale myoglobin.
 IT 64419-92-7
 RL: ANT (Analyte); ANST (Analytical study)
 (high-performance liq. chromatog. of, stepwise sequence detn. from carboxyl terminus of peptide in relation to)
 RN 64419-92-7 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo- (9CI) (CA INDEX NAME)

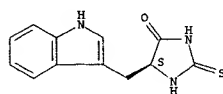


ACCESSION NUMBER: 1980:447159 CAPLUS
 DOCUMENT NUMBER: 93:47159
 TITLE: Identification of amino acid thiohydantoin derivatives and differentiation of .alpha.- and .gamma.-linkages in glutamyl peptides by mass spectrometry: comparison of electron impact and chemical ionization methods
 AUTHOR(S): Okada, Kozo; Itagaki, Yasuhiro
 CORPORATE SOURCE: Fac. Pharm. Sci., Kinki Univ., Osaka, Japan
 SOURCE: Koenshu - Iyo Masu Kenkyukai (1978), 3, 249-55
 CODEN: KIMKDN
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB The chem. ionization (CI) mass spectra of amino acid thiohydantoin was much simpler than the corresponding electron impact (EI) mass spectra, except for some arom. amino acids. Consequently, the major component in amino acid thiohydantoin mixts. can easily be detected by CI mass spectrometry. The .alpha.- and .gamma.-isomers of a series of .alpha. and .gamma.-glutamyl peptides were distinguished by EI mass spectrometry, whereas CI mass spectrometry was not effective in distinguishing these isomers. All 4 structural isomers of glutamyllysine were easily distinguished from their EI mass spectra.
 IT 61159-99-7
 RL: PRP (Properties)
 (chem. ionization and electron impact mass spectrum of)
 RN 61159-99-7 CAPLUS
 CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

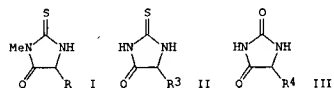


L18 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1979:420999 CAPLUS
 DOCUMENT NUMBER: 91:20999
 TITLE: Identification of amino acid thiohydantoin derivatives
 AUTHOR(S): by chemical ionization mass spectrometry
 CORPORATE SOURCE: Okada, Kozo; Sakuno, Akemi
 SOURCE: Fac. Pharm. Sci., Kinki Univ., Osaka, Japan
 ORG. Mass Spectrom. (1978), 13(9), 535-9
 CODEN: OPM5BG; ISSN: 0030-493X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The chem. ionization mass spectra of 16 amino acid thiohydantoin
 were examd. using isobutane or NH3 as reagent gases. Except for a few
 cases, including some arom. amino acids, the chem. ionization spectra were
 much simpler than the corresponding electron impact spectra. The major
 component in the amino acid thiohydantoin mixt. was easily detected
 by chem. ionization mass spectrometry. The combination of the chem.
 ionization method and thiohydantoin formation was applied
 successfully to the sequence anal. of model peptides.
 IT 61159-99-7
 RL: PRP (Properties)
 (chem. ionization mass spectrum of)
 RN 61159-99-7 CAPLUS
 CN 4-imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA
 INDEX NAME)

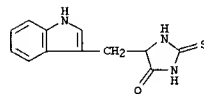


L18 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2002 ACS (Continued)

L18 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1977:568372 CAPLUS
 DOCUMENT NUMBER: 87:168372
 TITLE: Proton nuclear magnetic resonance studies on methylthiohydantoins, thiohydantoins, and
 hydantoins
 AUTHOR(S): of amino acids
 Suzuki, Tateso; Tomioka, Tetsuhisa; Tuzimura,
 Katura
 CORPORATE SOURCE: Fac. Agric., Tohoku Univ., Sendai, Japan
 SOURCE: Can. J. Biochem. (1977), 55(5), 521-7
 CODEN: CJBIAE
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

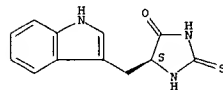


AB The proton NMR of methylthiohydantoins I [R = R1 [R1 = H, Me, CHMe2,
 CH2CHMe2, CHMeEt, CH2Ph, CH2C6H4OH-p, CH2CH2SMe, CH2CO2H,
 (CH2)3NHC(=NH)NH2, indol-3-ylmethyl, imidazol-4-ylmethyl], R2 [R2 =
 CH2CONH2, CH2CH2CONH2], CH2SH, CH2CH2CO2H, (CH2)4NHC(SMe)],
 thiohydantoins
 II [R3 = R1, R2, CH2SCH2CO2H, (CH2)4NHAc], and hydantoins III [R4 =
 R1,
 CH2OH, CH(OH)Me, CH2SO3H, CH2CH2CO2H, (CH2)4NHAc] were given for the
 identification of the parent amino acid. The N- and C-terminal
 residues of Leu-Gly-Gly were detd. by an application of this proton
 NMR-hydantoin
 method.
 IT 64419-92-7
 RL: PRP (Properties)
 (NMR of)
 RN 64419-92-7 CAPLUS
 CN 4-imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA INDEX
 NAME)



L18 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1977:529788 CAPLUS
 DOCUMENT NUMBER: 87:129788
 TITLE: Identification of 2-thiohydantoins by gas
 chromatography and reconversion to the free amino
 acids
 AUTHOR(S): Dwulet, Francis E.; Gurd, Frank R. N.
 CORPORATE SOURCE: Dep. Chem., Indiana Univ., Bloomington, Indiana,
 USA
 SOURCE: Anal. Biochem. (1977), 82(2), 385-95
 CODEN: ANBCA2
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The chem. of identifying 2-thiohydantoins was investigated. Min.
 conditions needed for silylating the 2-thiohydantoins were studied,
 and a
 new faster gas chromatog. temp. program was developed. Also, the
 conditions needed to reconvert the 2-thiohydantoins to the free amino
 acids were studied, and the severity of the hydrolysis conditions was
 minimized. Finally, some new 2-thiohydantoins were prepd., and their
 phys. properties are reported.
 IT 61159-99-7P
 RL: PRP (Properties); PREP (Preparation)
 (prepn. and properties of)
 RN 61159-99-7 CAPLUS
 CN 4-imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1976:577924 CAPLUS

DOCUMENT NUMBER: 85:177924

TITLE: Mass spectrometric identification of amino acid

thiohydantoin

AUTHOR(S): Suzuki, Tator; Song, Kyung-Duck; Itagaki,

Yasuhiro;

Tuzimura, Katura

CORPORATE SOURCE: Fac. Agric., Tohoku Univ., Sendai, Japan

SOURCE: Org. Mass Spectrom. (1976), 11(6), 557-68

CODEN: ORMSEB

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Amino acid thiohydantoin were identified by electron impact and
chem. ionization mass spectrometry. The thiohydantoin method is useful for
stepwise peptide sequencing from the carboxyl terminus; the sequence
of a model tripeptide was detd. as an example. The method does not work
for peptides contg. proline as the C-terminal unit as cleavage of the
peptide bond is not achieved.

IT 61159-99-7

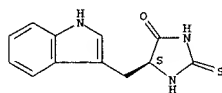
RL: PRP (Properties)

(mass spectrum of)

RN 61159-99-7 CAPLUS

CN 4-Imidazolidinone, 5-(1H-indol-3-ylmethyl)-2-thioxo-, (S)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



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 L19 15 L14

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PROP --- AN, properties
REF ---- AN, references
REGS --- AN, regulatory information
SAFE --- AN, product warnings
SINFO -- AN, safety text
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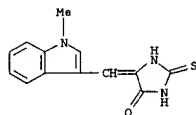
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Accession No. (AN): 2002:646333 CHEMCATS
Catalog Name (CO): ChemDiv, Inc. Product Library
Publication Date (PD): 26 Apr 2001
Order Number (ON): 1996-0079
Chemical Name (CN): 4-Imidazolidinone, 5-[(1-methyl-1H-indol-3-yl)methylene]-2-thioxo-
CAS Registry No. (RN): 340177-38-0
Supplementary Term (ST): CHEMICAL LIBRARY
Structure :



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ChemDiv, Inc.
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Suite 210
San Diego, CA, 92121
USA

Phone: +1-858-794-4860
Fax: +1-858-794-4931
Email: info@chemdiv.com
Web: <http://www.chemdiv.com>

ChemDiv, Inc.
The Vision Centre
5 Eastern Way
Bury St Edmunds
Suffolk, IP23 7AB
United Kingdom

Phone: +44 (0)1284 749698
Fax: +44 (0)1284 749693
Email: info@chemdiv.com

Contact Service Company
P O Box 32
Strakhovoy Uchastok, Dolgoprudny
Moscow region, 141700

L19 ANSWER 1 OF 15 CHEMCATS COPYRIGHT 2002 ACS (Continued)
Russia

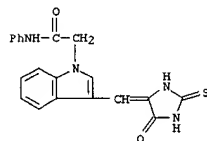
Phone: +7-(095) 408-8051
Fax: +7-(095) 576-0155
Email: contservice@contservice.ru

Summit Pharmaceuticals International Corporation (Japan)
Confort Yasuda Bldg., 2-9
Kanda Nishiki-cho
Chiyoda-ku
Tokyo, 101-0054
Japan

Phone: 81-3-3294-1613
Fax: 81-3-3294-1614
Email: newdrug@summitpharma.co.jp

=> d 2-15 all

L19 ANSWER 2 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2002:597364 CHEMCATS
 Catalog Name (CO): ChemBridge Product List
 Publication Date (PD): 17 Jan 2002
 Order Number (ON): 6061194
 Chemical Name (CN): 1H-Indole-1-acetamide, 3-[(5-oxo-2-thioxo-4-imidazolidinylidene)methyl]-N-phenyl-
 CAS Registry No. (RN): 332849-28-2
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

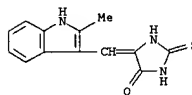
Quantity : milligram quantities, Price: contact supplier

COMPANY INFORMATION

ChemBridge Corporation
 16981 Via Tazon, Suite G
 San Diego, CA, 92127
 USA

Phone: (800) 964-6143
 (858) 451-7400
 Fax: (858) 451-7401
 Web: <http://www.chembridge.com>
 Email: sales@chembridge.com

L19 ANSWER 3 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2002:158936 CHEMCATS
 Catalog Name (CO): Interbioscreen Compound Library
 Publication Date (PD): 1 Aug 2001
 Order Number (ON): STOCKIN-95437
 Chemical Name (CN): 4-Imidazolidinone, 5-[(2-methyl-1H-indol-3-yl)methylene]-2-thioxo-
 CAS Registry No. (RN): 374703-78-3
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

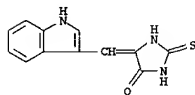
Quantity : milligram quantities, Price: contact supplier

COMPANY INFORMATION

Interbioscreen Ltd.
 P O Box 218
 Moscow, 121019
 Russia

Phone: 7 (095) 913 23 19
 Fax: 7 (095) 913 21 14
 Email: screen@ibscreen.chg.ru
 Web: <http://www.ibscreen.com>

L19 ANSWER 4 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:2826472 CHEMCATS
 Catalog Name (CO): MicroChemistry Screening Collection
 Publication Date (PD): 23 Aug 2001
 Order Number (ON): 153751
 Chemical Name (CN): 4-Imidazolidinone, 5-[(1H-indol-3-yl)methylene]-2-thioxo-
 CAS Registry No. (RN): 10258-18-1
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

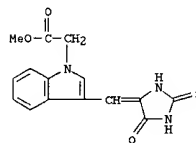
Quantity : < 100 mg, Price: contact supplier

COMPANY INFORMATION

MicroChemistry Ltd.
 Leninski prospect 55/1
 Moscow, 117333
 Russia

Phone: +7-(095)-137-1747
 Fax: +7-(095)-137-1747
 Email: nick@mch.ru
 Web: www.mch.ru

L19 ANSWER 5 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:2515820 CHEMCATS
 Catalog Name (CO): ChemStar Product List
 Publication Date (PD): 16 May 2001
 Order Number (ON): CHS 1422953
 Chemical Name (CN): 1H-Indole-1-acetic acid, 3-[(5-oxo-2-thioxo-4-imidazolidinylidene)methyl]-, methyl ester
 CAS Registry No. (RN): 355825-17-1
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

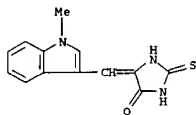
Quantity : milligram quantities, Price: contact supplier

COMPANY INFORMATION

ChemStar, Ltd.
 Leningradskii prospekt 47, Office 465
 Moscow, 125167
 Russia

Phone: (7 095) 785 2738
 Fax: (7 095) 977 5665
 Email: chemstar@online.ru
 Web: www.chemstar.ru

L19 ANSWER 6 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:2328897 CHEMCATS
 Catalog Name (CO): Ambinter: Exploratory Library
 Publication Date (PD): 31 May 2001
 Order Number (ON): A1714/0073093
 Chemical Name (CN): 4-Imidazolidinone, 5-[(1-methyl-1H-indol-3-yl)methylene]-2-thioxo-
 CAS Registry No. (RN): 340177-38-0
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



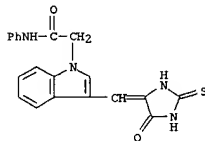
PRICES

Quantity : milligram quantities, Price: contact supplier

COMPANY INFORMATION

Ambinter
 46 quai Louis Bleriot
 Paris, F-75016
 France
 Phone: (33-1) 45 24 48 60
 Fax: (33-1) 45 24 62 41
 Email: ambinter@compuserve.com
 Web: <http://ourworld.compuserve.com/homepages/ambinter>

L19 ANSWER 7 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:2078455 CHEMCATS
 Catalog Name (CO): AsinEx Compound Collection
 Publication Date (PD): 10 May 2001
 Order Number (ON): BAS 1827584
 Chemical Name (CN): 1H-Indole-1-acetamide, 3-[(5-oxo-2-thioxo-4-imidazolidinylidene)methyl]-N-phenyl-
 CAS Registry No. (RN): 332849-28-2
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



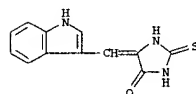
PRICES

Quantity : 1-100 g, Price: contact supplier

COMPANY INFORMATION

AsinEx
 6 Schukinskaya Street
 Moscow, 123182
 Russia
 Phone: (+7 095) 190-7960
 (+7 095) 728-3891
 Fax: (+7 095) 190-1213
 Email: asinex@asinex.com
 Web: <http://www.asinex.com>

L19 ANSWER 8 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:2053074 CHEMCATS
 Catalog Name (CO): Ambinter: Exploratory Library
 Publication Date (PD): 31 May 2001
 Order Number (ON): AmblieSMN-0158222
 Chemical Name (CN): 4-Imidazolidinone, 5-(1H-indol-3-ylmethylene)-2-thioxo-
 CAS Registry No. (RN): 10258-18-1
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



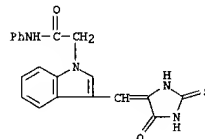
PRICES

Quantity : milligram quantities, Price: contact supplier

COMPANY INFORMATION

Ambinter
 46 quai Louis Bleriot
 Paris, F-75016
 France
 Phone: (33-1) 45 24 48 60
 Fax: (33-1) 45 24 62 41
 Email: ambinter@compuserve.com
 Web: <http://ourworld.compuserve.com/homepages/ambinter>

L19 ANSWER 9 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:1796364 CHEMCATS
 Catalog Name (CO): TimTec Screening Library
 Publication Date (PD): 19 Feb 2001
 Order Number (ON): T3566528
 Chemical Name (CN): 1H-Indole-1-acetamide, 3-[(5-oxo-2-thioxo-4-imidazolidinylidene)methyl]-N-phenyl-
 CAS Registry No. (RN): 332849-28-2
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

Quantity : milligram quantities only, Price: contact supplier

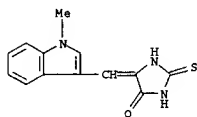
COMPANY INFORMATION

TimTec Corporation
 100 Interchange Blvd.
 Newark, DE, 19711
 USA
 Phone: (302) 292-8500
 Fax: (302) 292-8520
 Email: info@timtec.net
 Web: <http://www.timtec.net>

NOTE: Compounds from the TimTec Screening Library are generally deliverable in 2 to 6 months.

50 compound minimum order size

L19 ANSWER 10 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:1771582 CHEMCATS
 Catalog Name (CO): TimTec Screening Library
 Publication Date (PD): 19 Feb 2001
 Order Number (ON): T3528518
 Chemical Name (CN): 4-Imidazolidinone, 5-[(1-methyl-1H-indol-3-yl)methylene]-2-thioxo-
 CAS Registry No. (RN): 340177-38-0
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

Quantity : milligram quantities only, Price: contact supplier

COMPANY INFORMATION

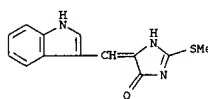
TimTec Corporation
 100 Interchange Blvd.
 Newark, DE, 19711
 USA

Phone: (302) 292-8500
 Fax: (302) 292-8520
 Email: info@timtec.net
 Web: <http://www.timtec.net>

NOTE: Compounds from the TimTec Screening Library are generally deliverable in 2 to 6 months.

50 compound minimum order size

L19 ANSWER 11 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:1611928 CHEMCATS
 Catalog Name (CO): Compounds For Screening
 Publication Date (PD): 1 Jul 2001
 Order Number (ON): AN-068/37134010
 Chemical Name (CN): 4H-Imidazol-4-one, 1,5-dihydro-5-[(1H-indol-3-yl)methylene]-2-(methylthio)-
 CAS Registry No. (RN): 353484-64-7
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

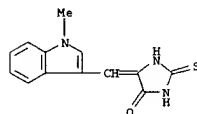
Quantity : milligram quantities, Price: contact supplier

COMPANY INFORMATION

SPECS and BiosPECS B.V.
 Fleminglaan 16
 CP Rijswijk, 2289
 Netherlands

Phone: +31 703190019
 Fax: +31 703190011
 Email: specs@specs.net
 Web: <http://www.specs.net>

L19 ANSWER 12 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:1584209 CHEMCATS
 Catalog Name (CO): Screening Collection
 Publication Date (PD): 28 Mar 2000
 Order Number (ON): A1714/0073093
 Chemical Name (CN): 4-Imidazolidinone, 5-[(1-methyl-1H-indol-3-yl)methylene]-2-thioxo-
 CAS Registry No. (RN): 340177-38-0
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

Quantity : N/A, Price: contact supplier

COMPANY INFORMATION

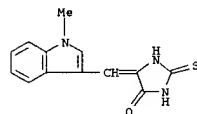
Zelinsky Institute of Organic Chemistry
 47 Leninsky Prospekt
 Moscow, 117913
 Russia

Phone: 7(095)135-4142
 Fax: 7(095)135-5328
 Email: info@zelinsky.com
 Web: www.zelinsky.com

Zelinsky Institute
 1300 First State Boulevard, Suite E
 Wilmington, DE, 19804
 USA

Phone: (302) 993-9165
 Fax: (302) 993-0458
 Email: info@zelinsky.com
 Web: www.zelinsky.com

L19 ANSWER 13 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:1322537 CHEMCATS
 Catalog Name (CO): Chemical Block Stock Library
 Publication Date (PD): 18 Oct 2001
 Order Number (ON): A1714/0073093
 Chemical Name (CN): 4-Imidazolidinone, 5-[(1-methyl-1H-indol-3-yl)methylene]-2-thioxo-
 CAS Registry No. (RN): 340177-38-0
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

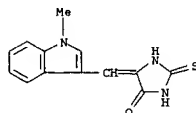
Quantity : 10-500 mg, Price: contact supplier

COMPANY INFORMATION

Chemical Block Ltd.
 40-144 Leninski pr
 Moscow, 117334
 Russia

Phone: 7 095 135 63 43
 Fax: 7 095 137 29 66
 Email: cbi@chemical-block.com
 Web: <http://www.chemical-block.com>

L19 ANSWER 14 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:1035338 CHEMCATS
 Catalog Name (CO): Ambinter: Screening Collection
 Publication Date (PD): 31 May 2001
 Order Number (ON): A1714/0073093
 Chemical Name (CN): 4-Imidazolidinone, 5-[(1-methyl-1H-indol-3-yl)methylene]-2-thioxo-
 CAS Registry No. (RN): 340177-38-0
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

Quantity : 5 mg (microplate), Price: \$8.00
 Quantity : 20 mg in vial, Price: \$35.00
 Quantity : 50 mg in vial, Price: \$60.00
 Quantity : 100 mg in vial, Price: \$70.00

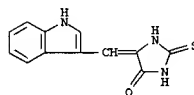
COMPANY INFORMATION

Ambinter
 46 qual Louis Bleriot
 Paris, F-75016
 France

Phone: (33-1) 45 24 48 60
 Fax: (33-1) 45 24 62 41
 Email: ambinter@compuserve.com
 Web: <http://ourworld.compuserve.com/homepages/ambinter>

Note: Only about 60% of the products in Ambinter's Screening Collection are readily available at a given time.

L19 ANSWER 15 OF 15 CHEMCATS COPYRIGHT 2002 ACS
 Accession No. (AN): 2001:405273 CHEMCATS
 Catalog Name (CO): TimTec Screening Library
 Publication Date (PD): 19 Feb 2001
 Order Number (ON): T3605511
 Chemical Name (CN): 4-Imidazolidinone, 5-(1H-indol-3-ylmethylene)-2-thioxo-
 CAS Registry No. (RN): 10258-18-1
 Supplementary Term (ST): CHEMICAL LIBRARY
 Structure :



PRICES

Quantity : milligram quantities only, Price: contact
 supplier

COMPANY INFORMATION

TimTec Corporation
 100 Interchange Blvd.
 Newark, DE, 19711
 USA

Phone: (302) 292-8500
 Fax: (302) 292-8520
 Email: info@timtec.net
 Web: <http://www.timtec.net>

NOTE: Compounds from the TimTec Screening Library are generally deliverable in 2 to 6 months.

50 compound minimum order size

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	49.74	786.33
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-21.68

STN INTERNATIONAL LOGOFF AT 11:56:52 ON 21 FEB 2002